Clarke®

5 IN 1 JUMP START

MODEL NO: JS5IN1

PART NO: 6240005

OPERATION & MAINTENANCE INSTRUCTIONS

LS0810

INTRODUCTION

Thank you for purchasing this CLARKE product.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

ENVIRONMENTAL PROTECTION

Do not dispose of this product with general household waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of according to the laws governing Waste Electrical and Electronic Equipment.

GENERAL SAFETY RULES

WARNING: ALL LEAD ACID BATTERIES GENERATE HYDROGEN GAS DURING NORMAL OPERATION. THIS PROCESS INCREASES DURING A PERIOD OF RAPID DISCHARGE, SUCH AS WHEN USING FOR JUMPSTARTING.

WARNING: HYDROGEN GAS AND BATTERY ACID (SULPHURIC ACID) CAN BE EXPLOSIVE, CORROSIVE TO SKIN, EYES AND HAIR, DAMAGING TO CLOTHING AND METALS, FLAMMABLE, POISONOUS TO BREATHE.

1. Although the unit is water resistant and may be used outdoors, DO NOT leave it exposed to the elements. Avoid direct sunlight, direct heat, rain/ moisture etc. The inverter feature must only be used indoors or completely protected from the rain. This also applies to the device being powered by the inverter.
2. The unit is primarily designed for use with 12V systems. However, the inverter feature provides a 230Va.c. supply to be used with mains powered appliances up to 300 watts
3. Do not operate the jumpstart if any of the cables are damaged. Consult your Clarke dealer for repair or replacement of the parts.
4. Do not operate the unit if the case is damaged. Consult your Clarke dealer or a qualified person for inspection and repair.
5. To prevent battery overheating and consequent damage, do not exceed our recommendations for duration of jump starting.
6. The unit is NOT designed to be used as a replacement for a vehicle battery.
7. NEVER allow the battery to become completely discharged.
8. NEVER jump start the engine whilst the unit is being charged.
9. NEVER attempt any repairs yourself. If you have a problem with the unit contact your local CLARKE dealer.
10. Always keep body and clothing dry. Never work in damp area without adequate insulation against electric shock.
11. Always store the unit out of reach of children.
12. Always wear safety glasses when working with lead acid batteries.
13. If splashed by battery acid, immediately flush the area of the splash with clean water. If a burning sensation is felt or any blistering occurs, seek medical help.

14. If battery acid comes into contact with the eyes, flush the eyes with clean water continuously and seek medical help.
15. Always ensure that there is air circulating around the unit when in use.
16. Never allow the negative and positive leads on this unit, to touch each other or to touch the same metal object.
17. Ensure the vehicle battery posts and battery clamps are perfectly clean before use.
18. When connecting the jumpstart leads to a battery, ensure the ON/OFF switch is OFF, and always connect the RED, (positive'+') output conductor to the unearthed (+) battery terminal first, then connect the BLACK, (negative) conductor to a suitable earthing point on the chassis, well away from any fuel lines.
19. ALWAYS wear suitable protective clothing and eye protection when working with lead acid batteries.
20. DO NOT attempt to BOOST CHARGE the jumpstarts' sealed battery.
21. NEVER allow the cables to become wrapped around the operator or any other person.

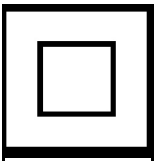
ELECTRICAL CONNECTIONS

This product is provided with a 13 amp, 230 volt (50Hz), charging adaptor for connection to a standard, domestic electrical supply. and also a 12V charging lead is also supplied

This appliance is of double insulated design. No earth conductor is provided.

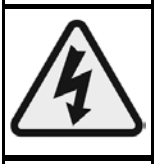
If in any doubt, consult a qualified electrician. DO NOT attempt any electrical repairs yourself.

SAFETY SYMBOLS



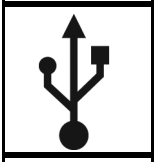
Class II appliance

Always read instructions before use

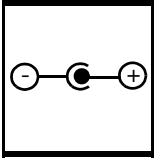


Electrical Hazard due to exposed live terminals

Chemical Hazard from battery acid



USB Port

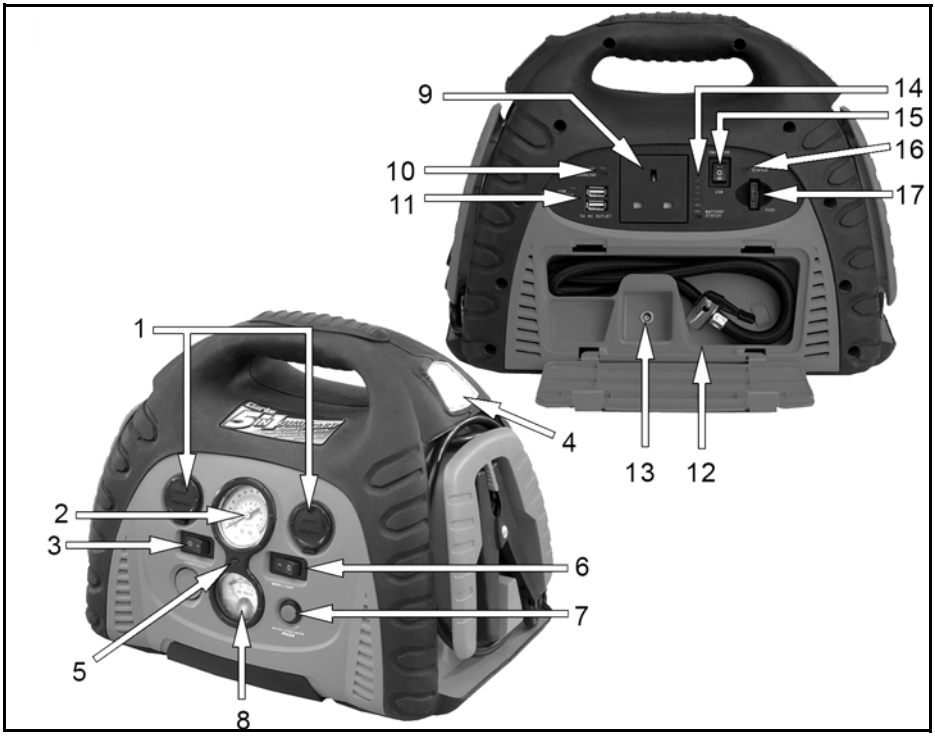


Live centre pin

Suitable for indoor use only (refers to mains adaptor only)

Subject to Waste Electrical & Electronic Directive

OVERVIEW

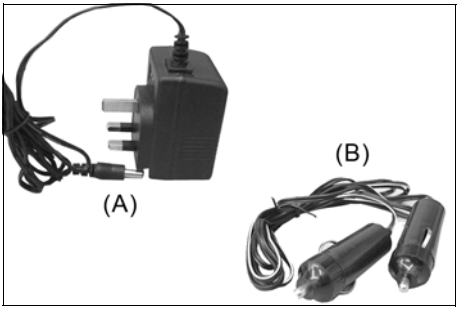


NO	DESCRIPTION	NO	DESCRIPTION
1	12V Cigarette Plug Socket	10	Charging Indicators
2	Pressure Gauge	11	USB Sockets 5V DC Outlet
3	Air Compressor On/Off Switch	12	Air Compressor Hose Compartment
4	Worklight	13	Charging Jack Socket
5	Reverse Polarity Warning Light	14	Inverter Power Indicator Light
6	Worklight On/Off Switch	15	Inverter On/off Switch
7	Voltage Test Button	16	Inverter Status Lights
8	Voltage Meter	17	Fuse
9	230V AC Output Socket		

CHARGING THE BATTERY

Two means of charging the battery are provided.

1. Via a 230V supply, using the 230V charger with cable and DC plug provided, shown as 'A'.
2. Via a 12V vehicle supply using the cigar lighter adapter with cable and plug provided, shown as 'B'.
   - Using a 12V vehicle supply, the battery will not charge to its maximum.



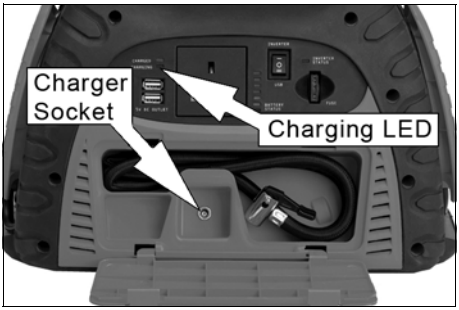
TO ENSURE MAXIMUM LIFE FROM THE BATTERY.

- Charge this unit before using it for the first time.
- Recharge after every use if possible, and thereafter, once every three months.
- Always avoid leaving the unit in a state of discharge.

For maximum battery life, we strongly recommend that you follow the rules above, or it may invalidate your warranty.

USING THE 230 VOLT CHARGER

1. Open the compartment door on the side of the unit to reveal the charger socket.
2. Plug the adapter into the charger socket, then the transformer into the mains supply and switch ON.
   - The red charging LED will illuminate.
3. Continue to charge until the RED charging light goes OUT and the Green charged LED lights up.



USING THE 12V ADAPTOR

WARNING: BEFORE USING THE DC POWER SOURCE FROM THE CAR CIGARETTE SOCKET CHECK THAT ITS FUSE RATING IS RATED AT 15A OR HIGHER.

1. Ensure the vehicle is not running.
2. One end of the twelve volt lighter plug lead should be plugged into one of the two cigarette lighter sockets.
3. The other end should be inserted into the vehicle lighter socket.
4. The engine should then be started.
   - The state of charge of the internal battery can be checked by disconnecting the lighter plug lead and then depressing the battery status button.
   - This method will only partially charge the battery. The 230 volt adaptor option is the preferred option.

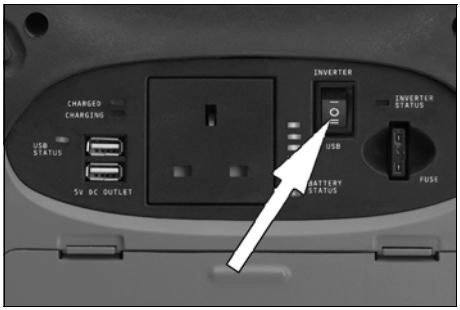
BATTERY CHARGE STATUS

1. Remove any charging devices from the unit.
2. Press the battery test button,
   - The battery level will be shown on the gauge.

OPERATION

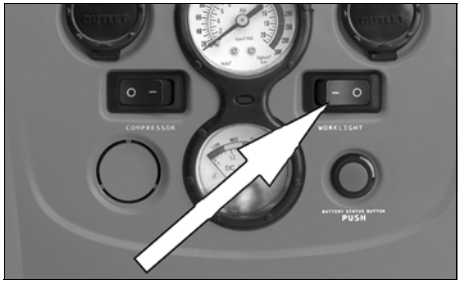
USING THE USB POWER SUPPLY

1. Insert the USB cable into one of the USB sockets on the side of the unit.
2. Press the USB side of the INVERTER/ USB switch as shown.
   - This will supply a maximum 5V at 500mA.



USING THE WORKLIGHT

1. Use the light switch on the side of the unit to turn the worklight on.



JUMP STARTING

WARNING: IT IS POSSIBLE THAT SOME ELECTRONIC EQUIPMENT COULD BE DAMAGED BY JUMP STARTING. ALWAYS CHECK WITH THE CAR MANUFACTURER'S HANDBOOK TO DETERMINE WHAT PRECAUTIONS IF ANY SHOULD BE TAKEN.

ALWAYS carry out the following preliminary checks before connecting the Jumpstart to the battery:

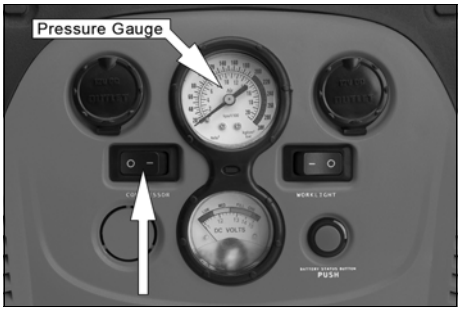
- Switch off the vehicle ignition and ALL ancillary equipment - lighting, radio etc.
- Ensure the vehicle battery is rated at 12V and is not damaged in any way.
- Ensure the area is well ventilated.
- Ensure the battery terminals are clean and the clamps are firm and secure.
- Remove vehicle battery filler plugs and check electrolyte level. If necessary, top up with distilled water.

When completely satisfied, proceed as follows:

1. Connect the red clamp to the unearthed battery terminal first, (this is usually the positive (+ve) terminal and painted RED), then the black clamp to the chassis or engine bolt, well away from the fuel lines or moving parts, ensuring the connections are firm and secure.
   - Do not allow the two leads to touch each other.
   - If you connect the leads the wrong way round the reverse polarity warning light will illuminate.
2. Switch the vehicle ignition ON, and leave in this condition FOR APPROX TWO MINUTES. (This will provide the vehicle battery with a short 'boost' charge to allow for easier starting).
3. Switch the ignition to 'start', for NO MORE than 6 seconds. If the engine does not start, within this time, SWITCH OFF the ignition and wait for at least 3 minutes before trying again.
4. Once the engine is running, disconnect the BLACK clamp FIRST i.e. that connected to the chassis or engine bolt etc., and return it to its storage position, then disconnect the RED clamp, from the battery terminal, and restore to its storage position.

USING THE AIR COMPRESSOR

1. Open the compartment door on the side of the unit to reveal the air hose.
2. Extend the air hose fully.
3. Attach the air hose to the tyre by pushing the connector down firmly on the tyre adapter and locking in place by turning the connector locking lever through 90 degrees.
4. Switch the air compressor ON using the switch shown.
   - The air pressure will be indicated by the pressure gauge.
   - Pump up the tyre to the required pressure.



WARNING: THE AIR COMPRESSOR GAUGE ON THIS PRODUCT IS FOR GUIDANCE ONLY. IT IS IMPORTANT YOU CHECK YOUR TYRE PRESSURE ON AN APPROVED GAUGE.

5. Switch OFF the compressor before disconnecting the air hose and coiling it back in to the compartment.

CAUTION: THE COMPRESSOR CAN ONLY BE USED FOR A MAXIMUM OF 10 MINUTES AT ANY ONE TIME, AFTER WHICH THE UNIT MUST BE SWITCHED OFF FOR 10 MINUTES.

USING THE 12 VOLT POWER SUPPLY

Two cigarette lighter type sockets allow connection to DC electrical equipment via a standard DC adapter.

WARNING: BE AWARE THAT A FULLY CHARGED 12V BATTERY CAN HAVE AN OUTPUT OF APPROX.13.5V. CONSULT THE APPLIANCE HANDBOOK TO ENSURE IT IS SAFE TO OPERATE FROM A 12V BATTERY.

USING THE INVERTER

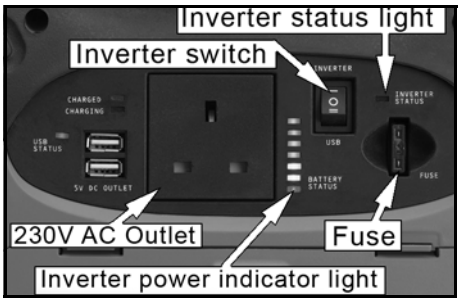
WARNING: WHEN USING THE INVERTER FUNCTION THE JS5IN1 AND WHATEVER YOU ARE POWERING MUST BE INSIDE AWAY FROM ANY RAIN OR MOISTURE.

WARNING: THE INVERTER OUTPUT VOLTAGE IS 230V 50HZ, (MAX 300W).

To protect the battery from damage, this unit has a low-voltage protection function which means when the voltage falls below a certain value, it will sound an alarm, then turn off automatically.

It also incorporates short-circuit protection, if the device being powered develops a short-circuit fault, the inverter turns off automatically.

1. Set the inverter switch to the INVERTER position.
2. Plug the electrical equipment into the 230V AC outlet.
3. Start electrical equipment.
4. The battery level is indicated by the inverter power indicator lights.
5. If the inverter fails, the inverter status light illuminates.



6. If the inverter fails suddenly, for example, there is a short circuit, check the fuse and replace if required.

CAUTION: MAKE SURE THAT THE APPLIANCE BEING CONNECTED IS IN GOOD WORKING ORDER. IF IT BEGINS TO ACT ABNORMALLY OR STOPS SUDDENLY, DISCONNECT IT FROM THE JUMPSTART.

CAUTION: MAKE SURE THE APPLIANCE DOES NOT EXCEED THE MAXIMUM RATED LOAD FOR THE JUMPSTART.

CAUTION: ANY DEVICE WHICH CONTAINS AN INDUCTIVE LOAD E.G. DEVICES THAT CONTAIN A MOTOR MAY REQUIRE MORE CURRENT ON START UP.

MAINTENANCE

CLEANING

- Wipe the body of the unit clean using a soft damp cloth.
- Do not use harsh abrasives to clean this product.

SERVICE AND REPAIR

- All servicing and repair must be carried out by qualified service technicians.

STORAGE

- When not in use, store in a safe dry place.

SPECIFICATIONS

Model Number	**JS5IN1**
Battery Capacity	**12V, 18AH**
USB Output	**5V @ 500mA**
Air Compressor (Max Pressure)	**260 PSI**
Dimensions (L X W X H)	**345 x 253 x 267 mm**
Weight	**10.2 kg**

Please note that the details and specifications contained herein, are correct at the time of going to print. CLARKE International reserve the right to change specifications at any time without prior notice.

DECLARATION OF CONFORMITY

CE

Clarke®
INTERNATIONAL

Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2004/108/EC *Electromagnetic Compatibility Directive.*

2006/95EC *Low Voltage Equipment Directive.*

2002/95/EC *Restriction of Hazardous substances.*

The following standards have been applied to the product(s):

EN 61000-6-1:2007, EN 61000-6-3:2007, EN 55014-1:2006, EN 55014-2:1997+A1:2001,

EN 61000-3-2:2006, EN 61000-3-3:1995+A1:2001+A2:2005,

EN 60335-1:2002+A11:2004+A1:2004+A12:2006+A2:2006+A13:2008, EN 62233:2008

EN 61558-2-6:1997, EN 61558-1:1997+A1.1998+A11:2003, BS EN 60335-2-29:2009

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2006

Product Description:	5 in 1 Jumpstart
Model number(s):	JS5IN1
Serial / batch Number:	n/a
Date of Issue:	02/06/2010

Signed:

J.A. Clarke
Director

5in1 JumpstartD.O.C (rv1) Page 1 of 1

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